

March 1, 2019



Standards by Division

DIVISION 200 EARTHWORK, LANDSCAPING, and EROSION CONTROL

STD. NO. TITLE

EARTHWORK

202001-01 Earth Median Ditch Check

EROSION CONTROL

280001-07 Temporary Erosion Control Systems

285001-02 Fabric Formed Concrete Revetment Mats

March 1, 2019



Standards by Division

DIVISION 300 SUBGRADES, SUBBASES, and BASE COURSES

STD. NO.	TITLE
-----------------	--------------

BASE COURSE	
--------------------	--

353001-05	PCC Base Course with HMA Binder and Surface Courses
-----------	---



Standards by Division

DIVISION 400 SURFACE COURSES, PAVEMENTS, REHABILITATION, AND SHOULDERS

STD. NO. TITLE**BITUMINOUS SURFACES AND HOT-MIX ASPHALT PAVEMENTS**

406001-06	Entrance Ramp Terminal (Flexible Ramp Pavement Adjacent to Flexible Mainline Pavement)
406101-05	Exit Ramp Terminal (Flexible Ramp Pavement Adjacent to Flexible Mainline Pavement)
406201-01	Mailbox Turnout

PORTLAND CEMENT CONCRETE PAVEMENTS AND SIDEWALKS

420001-09	Pavement Joints
420101-06	24' (7.2 m) Jointed PCC Pavement
420106-06	36' (10.8 m) Jointed PCC Pavement
420111-04	PCC Pavement Roundouts
420201-11	Entrance Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to Jointed PCC Mainline Pavt.)
420206-12	Entrance Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to CRC Mainline Pavement)
420301-08	Exit Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to Jointed PCC Mainline Pavt.)
420306-10	Exit Ramp Terminal (Jointed PCC Ramp Pavement Adjacent to CRC Mainline Pavement)
420401-13	Pavement Connector (PCC) for Bridge Approach Slab
420406	Pavement Connector (HMA) for Bridge Approach Slab
420501-07	PCC Pavement and PCC Base Course Adjacent to Railroad Grade Crossing
420701-03	Pavement Welded Wire Reinforcement
421001-03	Bar Reinforcement for CRC Pavement
421101-10	24' (7.2 m) CRC Pavement (With Wide Flange Beam Terminal Joint)
421106-10	36' (10.8 m) CRC Pavement (With Wide Flange Beam Terminal Joint)
421201-07	24' (7.2 m) CRC Pavement (With Lug System)
421206-07	36' (10.8 m) CRC Pavement (With Lug System)
424001-11	Perpendicular Curb Ramps for Sidewalks
424006-04	Diagonal Curb Ramps for Sidewalks
424011-04	Corner Parallel Curb Ramps for Sidewalks
424016-05	Mid-block Curb Ramps for Sidewalks
424021-05	Depressed Corner for Sidewalks
424026-03	Entrance / Alley Pedestrian Crossings
424031-02	Median Pedestrian Crossings

PAVEMENT REHABILITATION

442001-04	Class A Patches
442101-09	Class B Patches
442201-03	Class C and D Patches

SHOULDERS

482001-02	HMA Shoulder Adjacent to Flexible Pavement
482006-03	HMA Shoulder Adjacent to Rigid Pavement
482011-03	HMA Shoulder Strips/Shoulders With Resurfacing or Widening and Resurfacing Projects
483001-05	PCC Shoulder



Standards by Division

DIVISION 500 BRIDGES and CULVERTS

STD. NO. TITLE**BRIDGES**

515001-03 Name Plate for Bridges

CULVERTS

542001-06 Concrete End Sections for Pipe Culverts 15" (375 mm) thru 84" (2100 mm) Diameter

542011-02 Concrete End Sections for Elliptical Pipe Culverts 15" (375 mm) thru 72" (1800 mm) Equivalent Diameter

542201-02 Reinforced Concrete End Sections for Pipe Culverts, 15" (375 mm) thru 36" (900 mm) Diameter Skewed With Roadway

542206-04 Reinforced Concrete End Sections for Pipe Culverts, 42" (1050 mm) thru 60" (1500 mm) Diameter Skewed With Roadway

542301-03 Precast Reinforced Concrete Flared End Section

542306-03 Precast Reinforced Concrete Elliptical Flared End Section

542311-07 Traversable Pipe Grate for Concrete End Section

542401-03 Metal Flared End Section for Pipe Culverts

542406-03 Metal Flared End Section for Pipe Arches

542411 Sloped Metal End Sections for Pipe Culverts 15" (375 mm) thru 60" (1500 mm) Diameter

542416 Sloped Metal End Sections for Pipe Arch Culverts 15" (375 mm) thru 72" (1800 mm) Equivalent Diameter

542501-02 Inlet Box Type 24 (600) A

542506-03 Inlet Box Type 24 (600) B

542511-02 Inlet Box Type 24 (600) C

542516-03 Inlet Box Type 24 (600) D

542521-02 Inlet Box Type 24 (600) E

542526-03 Inlet Box Type 24 (600) F

542531-04 Inlet Box Type 24 (600) G

542536-03 Inlet Box Type 36 (900) A

542541-02 Inlet Box Type 48 (1200) A

542546-01 Flush Inlet Box for Median

542601-03 Reinforced Concrete Pipe Elbow 24", 30" or 36" (600 mm, 750 mm or 900 mm)

542606-02 Reinforced Concrete Pipe Tee



Standards by Division

DIVISION 600 INCIDENTAL CONSTRUCTION

STD. NO. TITLE**DRAINAGE RELATED ITEMS**

601001-05	Pipe Underdrains
601101-02	Concrete Headwall for Pipe Underdrain
602001-02	Catch Basin, Type A
602006-04	Catch Basin, Type B
602011-02	Catch Basin, Type C
602016-02	Catch Basin, Type D
602106-02	Drainage Structures, Types 4 & 5
602301-04	Inlet, Type A
602306-03	Inlet, Type B
602401-06	Precast Manhole, Type A, 4' (1.22 m) Diameter
602402-02	Precast Manhole, Type A, 5' (1.52 m) Diameter
602406-10	Precast Manhole, Type A, 6' (1.83 m) Diameter
602411-08	Precast Manhole, Type A, 7' (2.13 m) Diameter
602416-08	Precast Manhole, Type A, 8' (2.44 m) Diameter
602421-08	Precast Manhole, Type A, 9' (2.74 m) Diameter
602426-02	Precast Manhole, Type A, 10' (3.05 m) Diameter
602501-05	Precast Valve Vault, Type A, 4' (1.22 m) Diameter
602506-02	Precast Valve Vault, Type A, 5' (1.52 m) Diameter
602601-06	Precast Reinforced Concrete Flat Slab Top
602701-02	Manhole Steps
604001-04	Frame and Lids, Type 1
604006-05	Frame and Grate, Type 3
604011-05	Frame and Grate, Type 3V
604016-04	Frame and Grate, Type 4
604021-03	Base, Frame and Lids, Type 5
604026-03	Frame and Grate, Type 6
604031-03	Grate, Type 7
604036-03	Grate, Type 8
604041-03	Frame and Grate, Type 9
604046-03	Frame and Grate, Type 10
604051-04	Frame and Grate, Type 11
604056-04	Frame and Grate, Type 11V
604061-03	Frame and Grate, Type 12
604066-02	Frame and Lid, Type 15
604071-05	Frame and Grate, Type 20
604076-04	Frame and Grate, Type 21
604081-04	Frames and Grates, Type 22
604086-03	Frame and Grate, Type 23
604091-03	Frame and Grate, Type 24

604101-01	Median Inlet for 24" (600 mm) Reinforced Concrete Pipe
604106-01	Median Inlet for 36" (900 mm) Reinforced Concrete Pipe
606001-07	Concrete Curb Type B and Combination Concrete Curb and Gutter
606006-04	Outlet for Concrete Curb and Gutter, Type B-6.24 (B-15.60)
606101-05	Type A Gutter (Inlet, Outlet, and Entrance)
606106-05	Outlet, Type I for Type A Gutter
606111-03	Outlets, Type 2 for Type A Gutter
606201-04	Type B Gutter (Inlet, Outlet, and Entrance)
606206-04	Outlet, Type 1 for Type B Gutter
606211-04	Outlets, Type 2 for Type B Gutter
606301-04	PC Concrete Islands And Medians
606306-04	Corrugated PC Concrete Medians
606401-02	Paved Ditch
610001-08	Shoulder Inlet With Curb

SAFETY RELATED ITEMS

630001-12	Steel Plate Beam Guardrail
630006	Non-blocked Steel Plate Beam Guardrail
630101-10	Strong Post Guardrail Attached to Culvert
630106-02	Long-Span Guardrail Over Culvert
630111	Weak Post Guardrail Attached to Culvert
630116	Back Side Protection of Guardrail
630201-07	PCC/HMA Stabilization at Steel Plate Beam Guardrail
630301-09	Shoulder Widening for Type 1 (Special) Guardrail Terminals
631006-08	Traffic Barrier Terminal, Type 1B
631011-10	Traffic Barrier Terminal, Type 2
631026-06	Traffic Barrier Terminal, Type 5
631031-15	Traffic Barrier Terminal, Type 6
631032-09	Traffic Barrier Terminal, Type 6A
631033-07	Traffic Barrier Terminal, Type 6B
631046-04	Traffic Barrier Terminal, Type 10
631051-03	Traffic Barrier Terminal, Type 11
635001-02	Delineators
636001-02	Cable Road Guard Single Strand
637006-04	Concrete Barrier Double Face, 44 in. (1120 mm) Height
638101-02	Concrete Glare Screen
639001-02	Sight Screen Precast Prestressed Concrete Panel Wall
640001-01	Sight Screen Chain Link Fence
641001-01	Sight Screen Cedar Stockade Fence Type S
641006-01	Sight Screen Wood Plank Fence Type P
642001-02	Shoulder Rumble Strips, 16 in.
642006	Shoulder Rumble Strips, 8 in.
643001-02	Sand Module Impact Attenuators

OTHER ITEMS

664001-02	Chain Link Fence
665001-02	Woven Wire Fence
666001-01	Right-of-Way Markers
667001-01	Drainage Markers
667101-02	Permanent Survey Markers
668001-01	U.S. Geological Survey and National Geodetic Survey Benchmarks, Resetting Method



Standards by Division

**DIVISION 700 WORK ZONE TRAFFIC CONTROL AND PROTECTION,
SIGNING, AND PAVEMENT MARKING**

STD. NO. TITLE**WORK ZONE TRAFFIC CONTROL AND PROTECTION**

701001-02	Off-Road Operations, 2L, 2W, More Than 15' (4.5 m) Away
701006-05	Off-Road Operations, 2L, 2W, 15' (4.5 m) to 24" (600 mm) From Pavement Edge
701011-04	Off-Road Moving Operations, 2L, 2W, Day Only
701101-05	Off-Road Operations, Multilane, 15' (4.5 m) to 24" (600 mm) From Pavement Edge
701106-02	Off-Road Operations, Multilane, More Than 15' (4.5 m) Away
701201-05	Lane Closure, 2L, 2W, Day Only, for Speeds \geq 45 MPH
701206-05	Lane Closure, 2L, 2W, Night Only, for Speeds \geq 45 MPH
701301-04	Lane Closure, 2L, 2W, Short Time Operations
701306-04	Lane Closure, 2L, 2W, Slow Moving Operations Day Only, for Speeds \geq 45 MPH
701311-03	Lane Closure, 2L, 2W, Moving Operations - Day Only
701316-12	Lane Closure, 2L, 2W, Bridge Repair, for Speeds \geq 45 MPH
701321-17	Lane Closure, 2L, 2W, Bridge Repair with Barrier
701326-04	Lane Closure, 2L, 2W, Pavement Widening, for Speeds \geq 45 MPH
701331-05	Lane Closure, 2L, 2W, With Run-Around, for Speeds \geq 45 MPH
701336-07	Lane Closure, 2L, 2W, Work Areas in Series, for Speeds \geq 45 MPH
701400-09	Approach to Lane Closure, Freeway/Expressway
701401-12	Lane Closure, Freeway/Expressway
701402-12	Lane Closure, Freeway/Expressway, with Barrier
701406-12	Lane Closure, Freeway/Expressway, Day Operations Only
701411-09	Lane Closure, Multilane, at Entrance or Exit Ramp, for Speeds \geq 45 MPH
701416-11	Lane Closure, Freeway/Expressway, with Crossover and Barrier
701421-08	Lane Closure, Multilane, Day Operations Only, for Speeds \geq 45 MPH to 55 MPH
701422-10	Lane Closure, Multilane, for Speeds \geq 45 MPH to 55 MPH
701423-10	Lane Closure, Multilane, with Barrier, for Speeds \geq 45 MPH to 55 MPH
701426-09	Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds \geq 45 MPH
701427-05	Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds \leq 40 MPH
701428-01	Traffic Control, Setup and Removal, Freeway/Expressway
701431-13	Lane Closure, Multilane, Undivided with Crossover, for Speeds \geq 45 MPH to 55 MPH
701446-09	Two Lane Closure, Freeway/Expressway
701451-05	Ramp Closure Freeway/Expressway
701456-05	Partial Exit Ramp Closure Freeway/Expressway
701501-06	Urban Lane Closure, 2L, 2W, Undivided
701502-09	Urban Lane Closure, 2L, 2W, with Bidirectional Left Turn Lane
701601-09	Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
701602-10	Urban Lane Closure, Multilane, 2W with Bidirectional Left Turn Lane
701606-10	Urban Single Lane Closure, Multilane, 2W with Mountable Median
701611-01	Urban Half Road Closure, Multilane, 2W with Mountable Median
701701-10	Urban Lane Closure, Multilane Intersection

701801-06	Sidewalk, Corner or Crosswalk Closure
701901-08	Traffic Control Devices
704001-08	Temporary Concrete Barrier

SIGNING

720001-01	Sign Panel Mounting Details
720006-04	Sign Panel Erection Details
720011-01	Metal Posts for Signs, Markers and Delineators
720016-04	Mast Arm Mounted Street Name Signs
720021-02	Sign Panels, Extruded Aluminum Type
725001-01	Object and Terminal Markers
728001-01	Telescoping Steel Sign Support
729001-01	Applications of Types A and B Metal Posts (For Signs & Markers)
731001-01	Base for Telescoping Steel Sign Support

PAVEMENT MARKING

780001-05	Typical Pavement Markings
781001-04	Typical Applications Raised Reflective Pavement Markers
782001-01	Curb Reflectors
782006	Guardrail and Barrier Wall Reflector Mounting Details



Standards by Division

DIVISION 800 ELECTRICAL

STD. NO. TITLE**GENERAL ELECTRICAL REQUIREMENTS**

805001-01 Electrical Service Installation Details

WIREWAY AND CONDUIT SYSTEMS

812001 Raceway Embedded in Structure

814001-03 Handholes

814006-02 Double Handholes

LIGHTING – LUMINAIRES

821001 Underpass Lighting Wall Mount

821006 Underpass Lighting Suspended

821101-02 Luminaire Wiring in Pole

LIGHTING – CONTROLLERS

825001-04 Lighting Controller, Pole Mounted, 240V

825006-03 Lighting Controller, Pole Mounted, 480V

825011-04 Lighting Controller, Pedestal Mounted, 240V

825016-04 Lighting Controller, Pedestal Mounted, 480V

825021-04 Lighting Controller, Base Mounted, 240V

825026-04 Lighting Controller, Base Mounted, 480V

826001-02 Navigation Obstruction Lighting Controller, 240V

826006-02 Navigation Obstruction Lighting Controller, 480V

LIGHTING – POLES

830001-03 Light Pole Aluminum Mast Arm

830006-05 Light Pole Aluminum Davit Arm

830011-03 Light Pole Steel Mast Arm

830016-03 Light Pole Steel Davit Arm

830021-03 Light Pole Steel Tenon Top

830026-01 Temporary Roadway Lighting

LIGHTING – TOWERS

835001-01 Light Tower

LIGHTING – FOUNDATIONS

836001-04 Light Pole Foundation

836011-02 Light Pole Foundation with 44 in. (1120 mm) Concrete Barrier

837001-04 Light Tower Foundation

LIGHTING – BREAKAWAY DEVICES

838001-01 Breakaway Devices

TRAFFIC SIGNALS - CONTROLLERS AND EQUIPMENT

857001-01 Standard Phase Designation Diagrams and Phase Sequences

857006-01 Supervised Railroad Interconnect Circuit

862001-01 Uninterruptable Power Supply (UPS)

TRAFFIC SIGNALS - WIRE AND CABLE

873001-02 Traffic Signal Grounding & Bonding

TRAFFIC SIGNALS - POSTS AND FOUNDATIONS

876001-04 Pedestrian Push Button Post

877001-07 Steel Mast Arm Assembly and Pole 16' Through 55'

877002-04 Steel Mast Arm Assembly and Pole 56' Through 75'

877006-06 Steel Mast Arm Assembly and Pole with Dual Mast Arms

877011-10 Steel Combination Mast Arm Assembly and Pole 16' Through 55'

877012-07 Steel Combination Mast Arm Assembly and Pole 56' Through 75'

878001-10 Concrete Foundation Details

TRAFFIC SIGNALS - SIGNAL HEADS

880001-01 Span Wire Mounted Signals and Flashing Beacon Installation

880006-01 Traffic Signal Mounting Details

TRAFFIC SIGNALS - DETECTION

886001-01 Detector Loop Installations

886006-01 Typical Layout for Detection Loops

March 1, 2019



Standards by Division

DIVISION 000 MISCELLANEOUS TABLES

STD. NO.	TITLE
000001-07	Standard Symbols, Abbreviations and Patterns
001001-02	Areas of Reinforcement Bars
001006	Decimal of an Inch and of a Foot



Standards by Division

DIVISION BLR LOCAL ROADS

STD. NO.	TITLE
BLR 10-7	PCC Pavement Special
BLR 14-12	Portland Cement Concrete Pavement (Nonreinforced)
BLR 17-4	Traffic Control Devices - Day Labor Construction
BLR 18-6	Traffic Control Devices - Day Labor Maintenance
BLR 20-7	Traffic Barrier Terminal - Type 5R
BLR 21-9	Typical Application of Traffic Control Devices for Construction on Rural Local Highways
BLR 22-7	Typ. Appl. of T.C.D. for Rural Loc. Hwys. (2-Lane 2 Way Rural Traff.) (Rd. Closed to Thru Traff.)
BLR 23-4	Traffic Barrier Terminal Type 1
BLR 24-2	Mailbox Turnout for Local Roads
BLR 25-1	Type 1A Barricade for Non-NHS Routes
BLR 26-3	Steel Plate Beam Guardrail 29 in. (731 mm) Height
BLR 27-1	Traffic Barrier Terminal Type 5A
BLR 28	Concrete Curb Type B and Combination Concrete Curb and Gutter